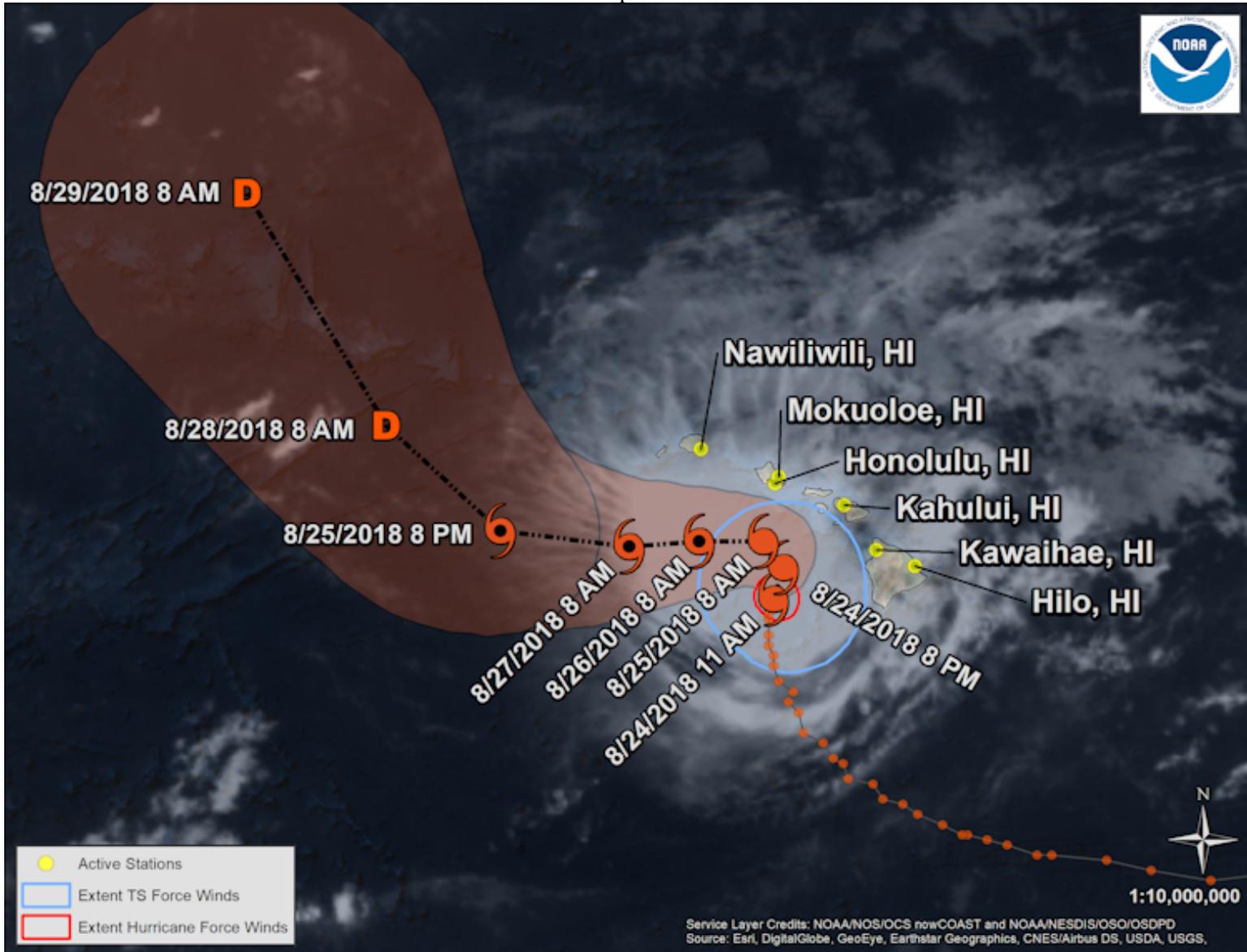


Hurricane Lane QuickLook  
Posted: 12:00 HST 08/24/2018

NOAA and NOAA Partnership Stations Relative to the Storm



### Storm Analysis

As of 8/24/2018 12:00 HST water levels across the Hawaiian Islands remain elevated above normal tide levels. Water levels from the island of Hawai'i to O'ahu range between 0.5 and 1.0 feet above tidal predictions. Water levels on Kaua'i are measuring 0.1 to 0.3 feet above normal tide levels.

The strongest winds are presently being observed at Nawiliwili (Kaua'i), Mokuoloe (O'ahu), and Kahului (Maui) with winds of around 20 kts and gusts up to 25 kts measured over the last several hours. Winds of 5 to 10 kts with gusts to 15 knots are being measured on the island of Hawai'i. Barometric pressure is stabilizing across the islands.

Water Level and Meteorological plots available below are updated automatically. A line denoting Mean Higher High Water (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

For additional real-time and historical inundation information for select stations affected by this storm, please visit Coastal Inundation Dashboard. For additional data, please see the Center for Operational Oceanographic Products & Services website.

For more information or archived products and reports, please visit the Storm QuickLook Homepage.

Analyst: RCL

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Select Central Pacific Hurricane Center Advisory Information:

Hurricane Lane Advisory Number 41  
NWS Central Pacific Hurricane Center Honolulu HI  
1100 AM HST Fri Aug 24 2018

...SLOW-MOVING LANE CONTINUING TO BRING FLOODING RAINFALL AND STRONG GUSTY WINDS TO PARTS OF HAWAII...

SUMMARY OF 1100 AM HST...2100 UTC...INFORMATION  
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LOCATION...19.1N 157.9W  
ABOUT 150 MI...245 KM S OF HONOLULU HAWAII  
ABOUT 130 MI...205 KM WSW OF KAILUA-KONA HAWAII  
MAXIMUM SUSTAINED WINDS...105 MPH...165 KM/H  
PRESENT MOVEMENT...N OR 360 DEGREES AT 5 MPH...7 KM/H  
MINIMUM CENTRAL PRESSURE...966 MB...28.53 INCHES

WATCHES AND WARNINGS  
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CHANGES WITH THIS ADVISORY:

The Hurricane Watch for Kauai has been changed to a Tropical Storm Watch for Kauai and Niihau.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Warning is in effect for...

- \* Oahu
- \* Maui County...including the islands of Maui, Lanai, Molokai and Kahoolawe

A Tropical Storm Warning is in effect for...

\* Hawaii County

A Tropical Storm Watch is in effect for...

\* Kauai County...including the islands of Kauai and Niihau

A Hurricane Warning means that hurricane conditions are expected somewhere within the warning area. Preparations to protect life and property should already be complete.

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area.

A Hurricane Watch means that hurricane conditions are possible within the watch area.

A Tropical Storm Watch means that tropical storm conditions are possible within the watch area.

Interests in the Northwestern Hawaiian Islands should monitor the progress of Hurricane Lane.

For storm information specific to your area, please monitor products issued by the National Weather Service office in Honolulu Hawaii.

## DISCUSSION AND OUTLOOK

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At 1100 AM HST (2100 UTC), the center of Hurricane Lane was located near latitude 19.1 North, longitude 157.9 West. Lane is moving toward the north near 5 mph (7 km/h) and this general motion is expected to continue through tonight. A turn toward the west is anticipated on Saturday, with an increase in forward speed. The center of Lane will remain dangerously close to portions of the central Hawaiian islands later today and tonight.

Maximum sustained winds are near 105 mph (165 km/h) with higher gusts. Weakening is forecast during the next 48 hours.

Hurricane-force winds extend outward up to 35 miles (55 km) from the center and tropical-storm-force winds extend outward up to 140 miles (220 km).

The estimated minimum central pressure is 966 mb (28.53 inches).

## HAZARDS AFFECTING LAND

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WIND: Tropical storm conditions are already occurring on the Big Island, Maui County and Oahu. Hurricane conditions are expected over

portions of Maui County and Oahu starting tonight. Tropical storm conditions are possible on Kauai starting Saturday.

**RAINFALL:** Rain bands from Lane will continue to affect the main Hawaiian Islands with excessive rainfall possible into the weekend. These rains could lead to additional major flash flooding and landslides. Lane is expected to produce total rain accumulations of 10 to 20 inches in some areas. Localized storm total amounts up to 40 inches are possible, mainly on the windward side of the Big Island where over 30 inches of rain has already fallen in some areas.

**SURF:** Very large swells generated by the slow moving hurricane will severely impact the Hawaiian Islands into this weekend. These swells will produce life-threatening and damaging surf along exposed shorelines, particularly today through Saturday. In addition, a prolonged period of extreme surf will also likely lead to significant coastal erosion.

**STORM SURGE:** The combination of a dangerous storm surge and large breaking waves will raise water levels by as much as 2 to 4 feet above normal tide levels along south and west facing shores near the center of Lane. The surge will be accompanied by large and destructive waves.

#### NEXT ADVISORY

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Next intermediate advisory at 200 PM HST.

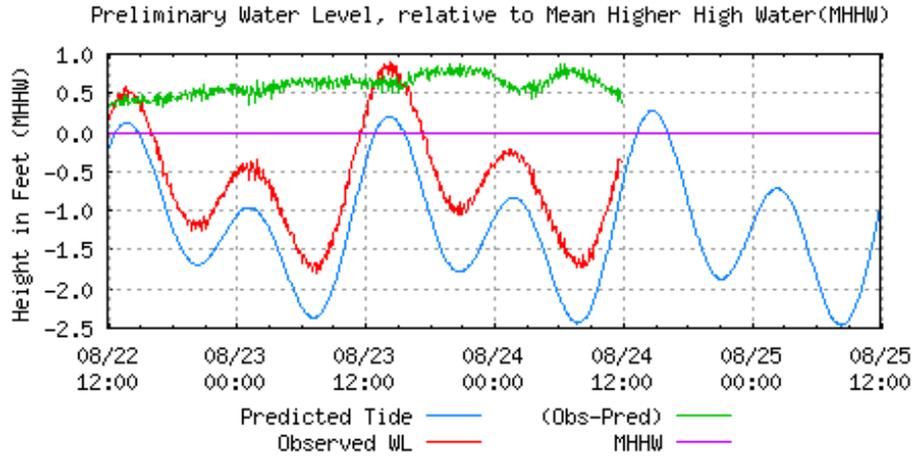
Next complete advisory at 500 PM HST.

Forecaster R Ballard

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Hilo, Hilo Bay, Kuhio Bay - Water Level](#), [Hilo, Hilo Bay, Kuhio Bay - Winds](#), [Hilo, Hilo Bay, Kuhio Bay - Barometric](#), [Kawaihae - Water Level](#), [Kawaihae - Winds](#), [Kawaihae - Barometric](#), [Kahului, Kahului Harbor - Water Level](#), [Kahului, Kahului Harbor - Winds](#), [Kahului, Kahului Harbor - Barometric](#), [Mokuoloe - Water Level](#), [Mokuoloe - Winds](#), [Mokuoloe - Barometric](#), [Honolulu - Water Level](#), [Honolulu - Winds](#), [Honolulu - Barometric](#), [Nawiliwili - Water Level](#), [Nawiliwili - Winds](#), [Nawiliwili - Barometric](#)

NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI



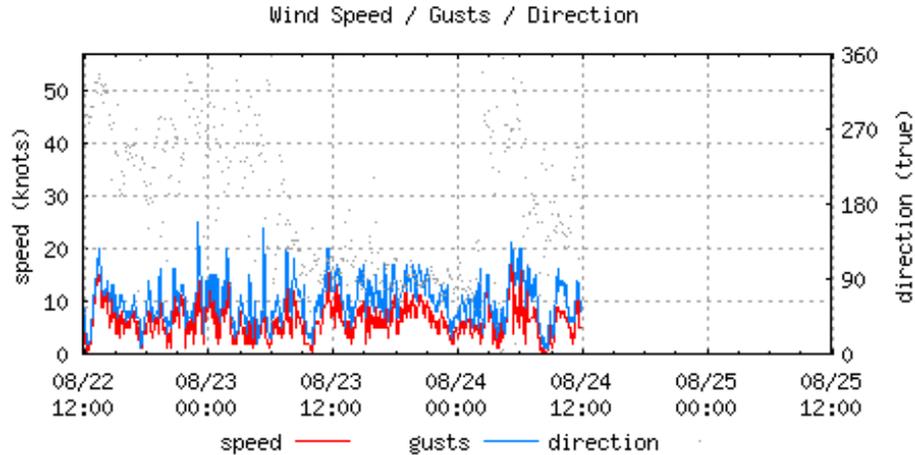
Last Observed Sample: 08/24/2018 11:48 (HST). Data relative to MHHW

Observed: -0.37 ft. Predicted: -0.74 ft. Residual: 0.37 ft.

Historical Maximum Water Level: Jul 24 2017, 1.54 ft.

Next High Tide: 08/24/2018 14:40 (HST), 0.27 ft.

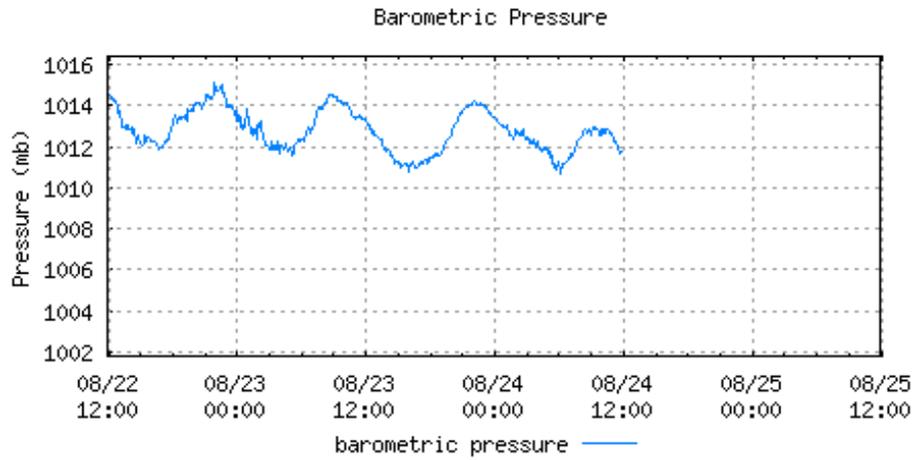
NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI



Last Observed Sample: 08/24/2018 11:48 (HST)

Wind Speed: 5 knots Gusts: 8 knots Direction: 175° T

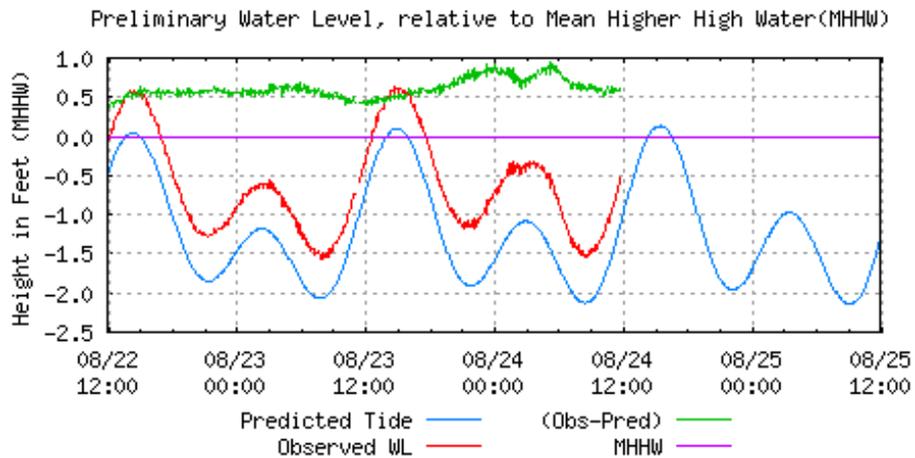
NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI



Last Observed Sample: 08/24/2018 11:48 (HST)

Barometric Pressure: 1011.8 mb

NOAA/NOS/CO-OPS 1617433 Kawaihae, HI



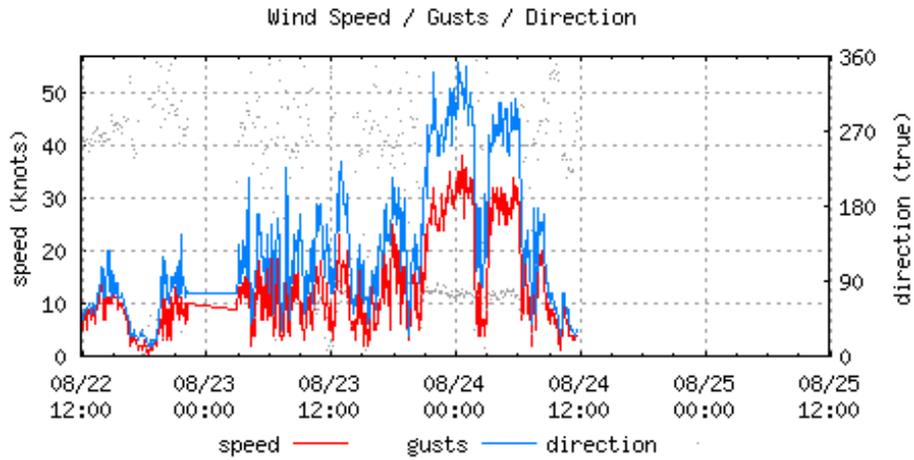
Last Observed Sample: 08/24/2018 11:42 (HST). Data relative to MHHW

Observed: -0.53 ft. Predicted: -1.14 ft. Residual: 0.61 ft.

Historical Maximum Water Level: Dec 15 2016, 1.33 ft.

Next High Tide: 08/24/2018 15:24 (HST), 0.14 ft.

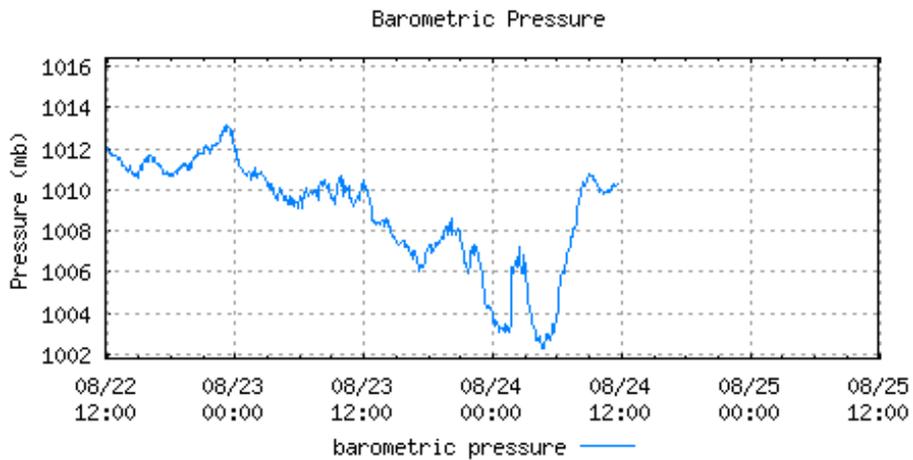
NOAA/NOS/CO-OPS 1617433 Kawaihae, HI



Last Observed Sample: 08/24/2018 11:42 (HST)

Wind Speed: 4 knots Gusts: 5 knots Direction: 271° T

NOAA/NOS/CO-OPS 1617433 Kawaihae, HI

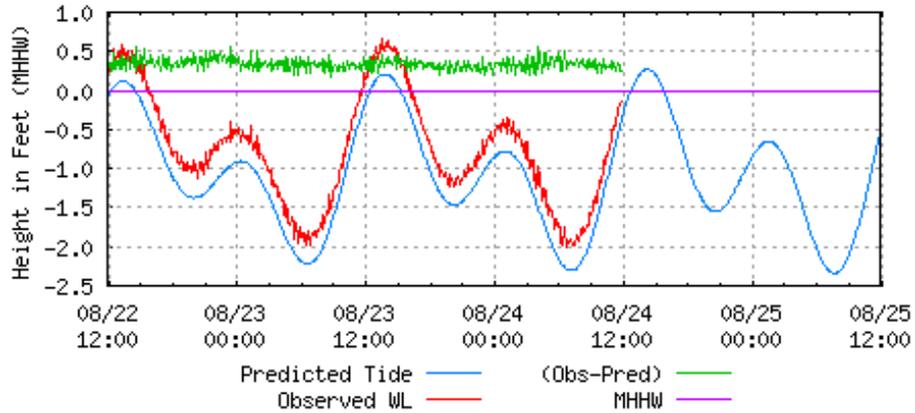


Last Observed Sample: 08/24/2018 11:42 (HST)

Barometric Pressure: 1010.3 mb

NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 08/24/2018 11:48 (HST). Data relative to MHHW

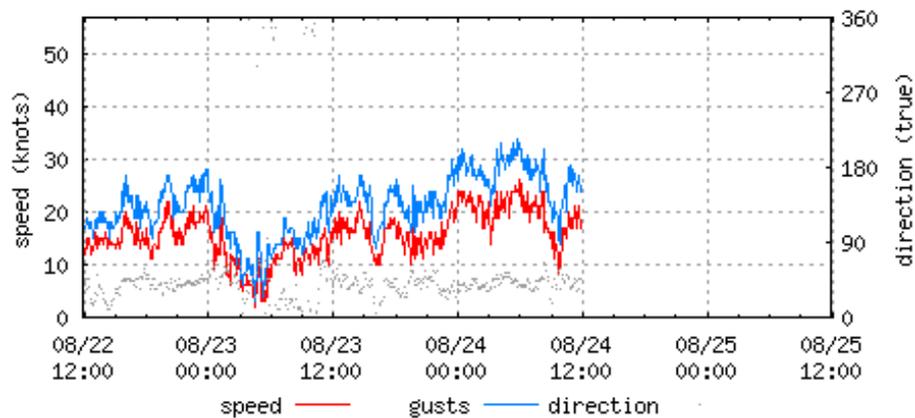
**Observed: -0.15 ft. Predicted: -0.39 ft. Residual: 0.24 ft.**

Historical Maximum Water Level: Aug 21 2017, 1.33 ft.

Next High Tide: 08/24/2018 14:11 (HST), 0.27 ft.

NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI

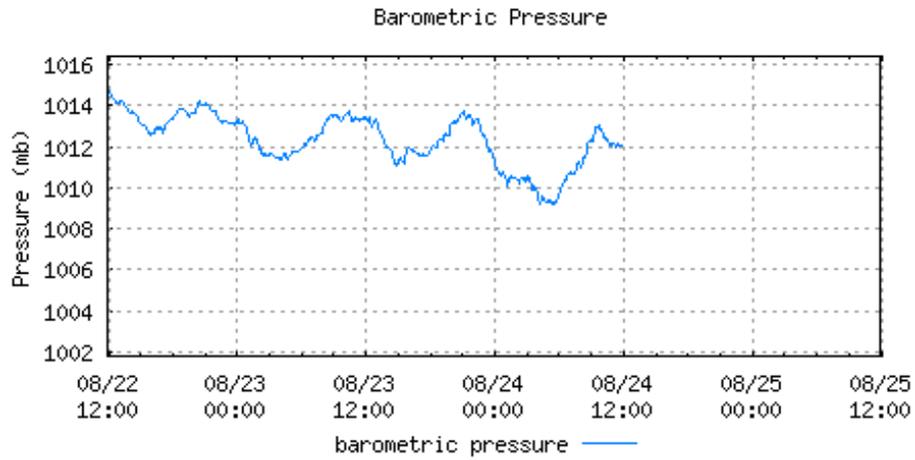
Wind Speed / Gusts / Direction



Last Observed Sample: 08/24/2018 11:48 (HST)

**Wind Speed: 17 knots Gusts: 24 knots Direction: 47° T**

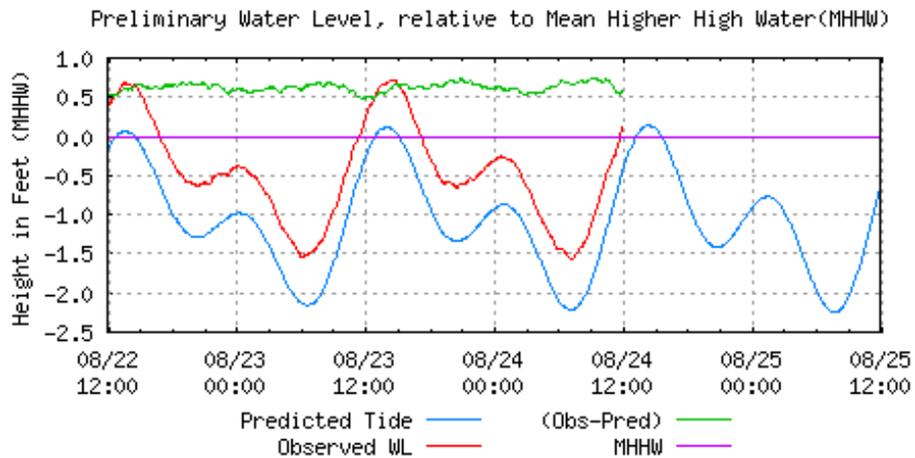
NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI



Last Observed Sample: 08/24/2018 11:48 (HST)

Barometric Pressure: 1012.1 mb

NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI



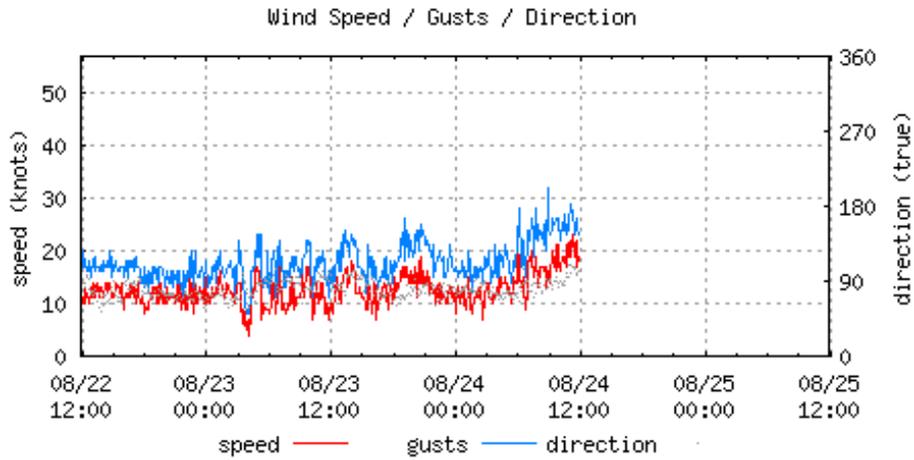
Last Observed Sample: 08/24/2018 11:54 (HST). Data relative to MHHW

Observed: 0.12 ft. Predicted: -0.46 ft. Residual: 0.58 ft.

Historical Maximum Water Level: Aug 21 2017, 1.47 ft.

Next High Tide: 08/24/2018 14:20 (HST), 0.14 ft.

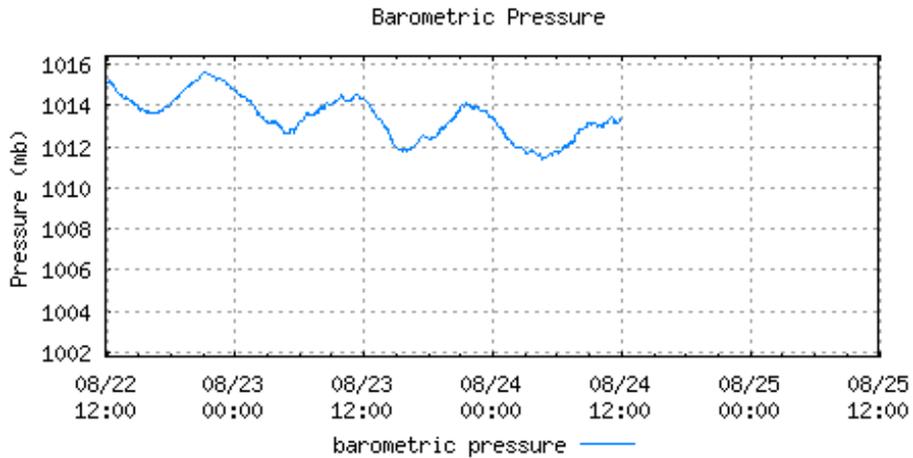
NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI



Last Observed Sample: 08/24/2018 11:54 (HST)

Wind Speed: 19 knots Gusts: 23 knots Direction: 103° T

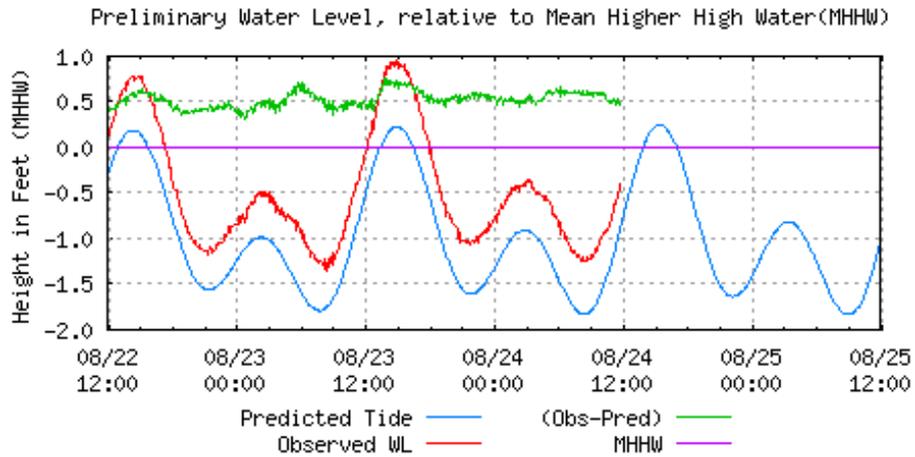
NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI



Last Observed Sample: 08/24/2018 11:54 (HST)

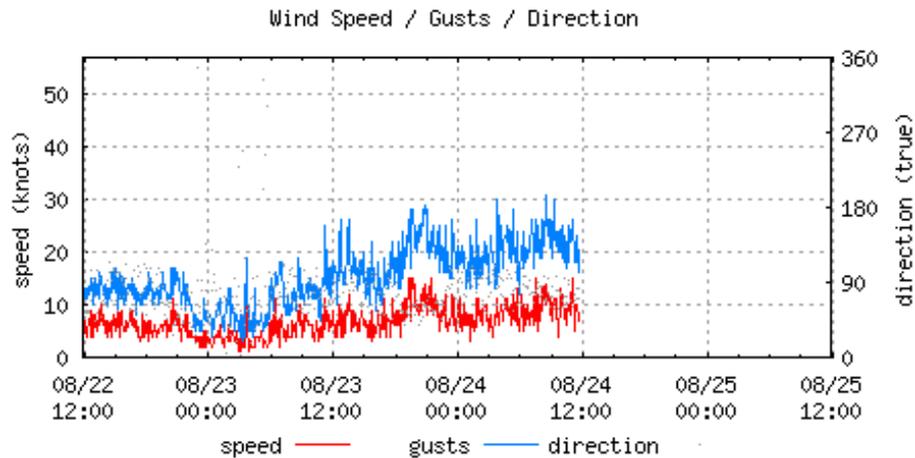
Barometric Pressure: 1013.3 mb

NOAA/NOS/CO-OPS 1612340 Honolulu, HI



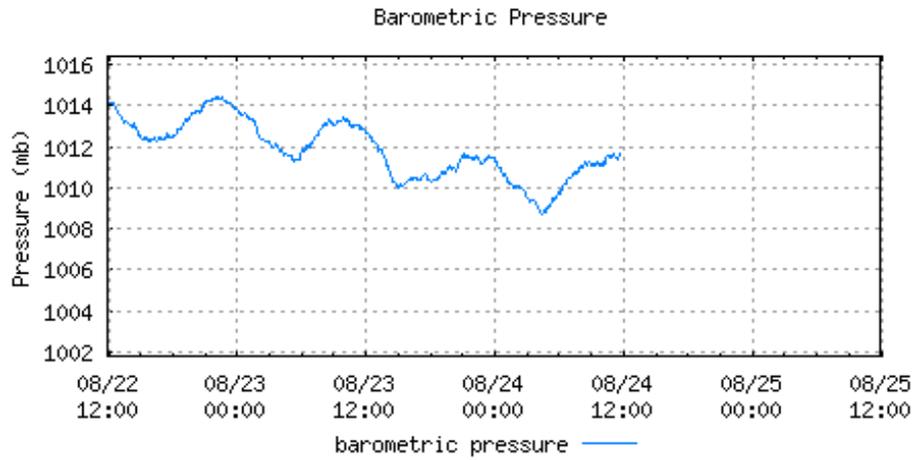
Last Observed Sample: 08/24/2018 11:42 (HST). Data relative to MHHW  
**Observed: -0.40 ft. Predicted: -0.89 ft. Residual: 0.49 ft.**  
 Historical Maximum Water Level: Sep 11 1992, 1.47 ft.  
 Next High Tide: 08/24/2018 15:22 (HST), 0.25 ft.

NOAA/NOS/CO-OPS 1612340 Honolulu, HI



Last Observed Sample: 08/24/2018 11:42 (HST)  
**Wind Speed: 8 knots Gusts: 16 knots Direction: 71° T**

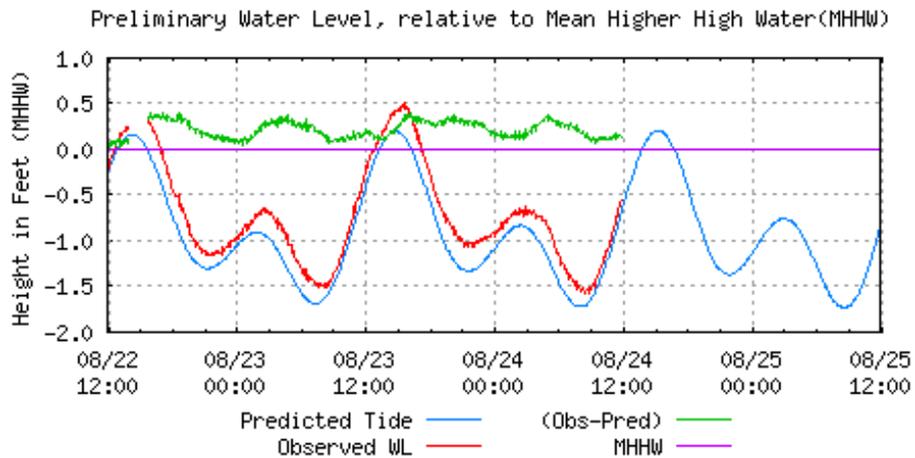
NOAA/NOS/CO-OPS 1612340 Honolulu, HI



Last Observed Sample: 08/24/2018 11:42 (HST)

Barometric Pressure: 1011.7 mb

NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI



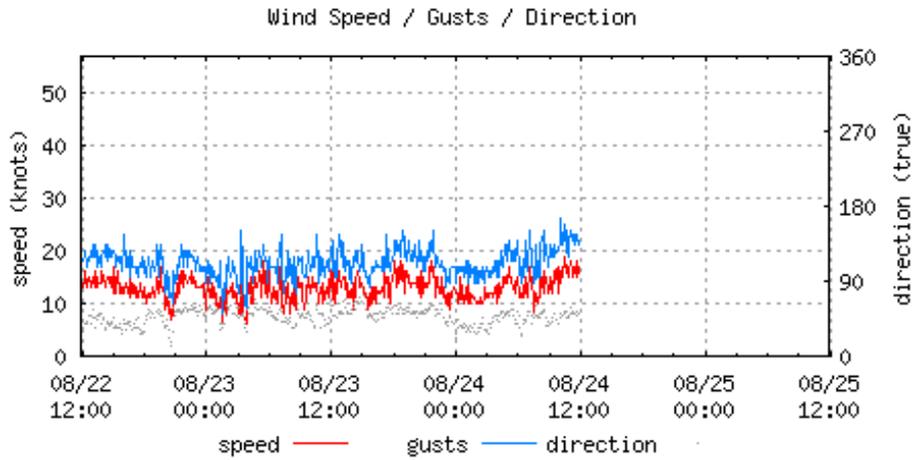
Last Observed Sample: 08/24/2018 11:54 (HST). Data relative to MHHW

Observed: -0.55 ft. Predicted: -0.69 ft. Residual: 0.14 ft.

Historical Maximum Water Level: Sep 11 1992, 3.15 ft.

Next High Tide: 08/24/2018 15:13 (HST), 0.20 ft.

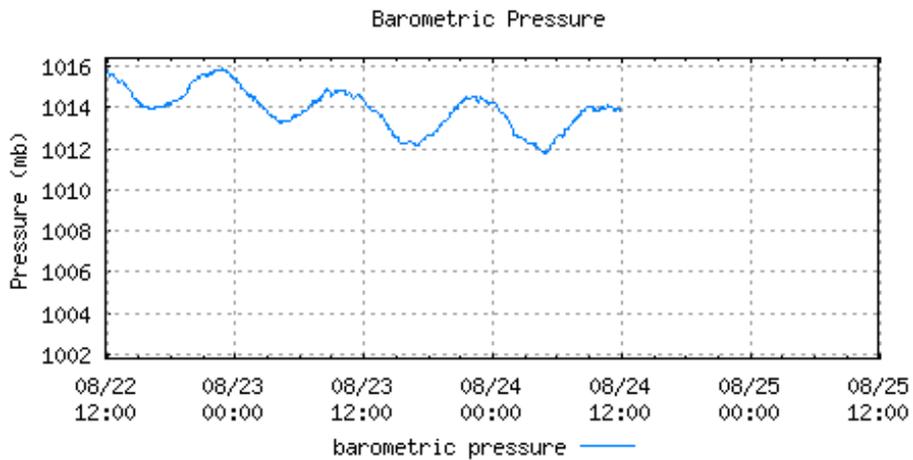
NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI



Last Observed Sample: 08/24/2018 11:54 (HST)

Wind Speed: 17 knots Gusts: 22 knots Direction: 52° T

NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI



Last Observed Sample: 08/24/2018 11:54 (HST)

Barometric Pressure: 1013.8 mb

Latest Water Level Observations on MHHW

<b>Station ID</b>	<b>Station Name</b>	<b>Date/Time</b>	<b>Observed Water Level</b>	<b>Predicted Tide</b>	<b>Residual Water Level</b>	<b>24 Hour Maximum Storm Tide</b>
1617760	Hilo, Hilo Bay, Kuhio Bay, HI	08/24/2018 11:48 (HST)	-0.37 ft	-0.74 ft	0.37 ft	0.90 ft
1617433	Kawaihae, HI	08/24/2018 11:42 (HST)	-0.53 ft	-1.14 ft	0.61 ft	0.63 ft
1615680	Kahului, Kahului Harbor, HI	08/24/2018 11:48 (HST)	-0.15 ft	-0.39 ft	0.24 ft	0.66 ft
1612480	Mokuoloe, HI	08/24/2018 11:54 (HST)	0.12 ft	-0.46 ft	0.58 ft	0.72 ft
1612340	Honolulu, HI	08/24/2018 11:42 (HST)	-0.40 ft	-0.89 ft	0.49 ft	0.96 ft
1611400	Nawiliwili, HI	08/24/2018 11:54 (HST)	-0.55 ft	-0.69 ft	0.14 ft	0.51 ft

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)  
National Oceanic and Atmospheric Administration | U.S. Department of Commerce